

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Feng Qian**Serial No.: **09/686,786**Filed: **October 11, 2000**For: **Frame Matching Method**Group Art Unit: **2667**Examiner: **Prenell P. Jones**Confirmation No.: **5227**

In accordance with 37 C.F.R. 1.8, I, Barbara S. Kelly, hereby certify that this correspondence and all its attachments are being deposited on **Thursday, March 17, 2005** with the U.S. Postal Service with sufficient postage as First Class mail in an envelope addressed to Mail Stop Issue Fee, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*Barbara Kelly* 3/17/05  
Barbara S. Kelly

**Mail Stop Issue Fee**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**ISSUE FEE TRANSMITTAL LETTER**

Transmitted herewith is the following in regard to the above-identified application:

- (XX) Part B – Fee(s) Transmittal, 1 page in duplicate.
- (XX) Four (4) Sheets Drawings, Figures 1-4, as required by Examiner on the Notice of Allowance dated December 20, 2004.
- (XX) Comments on Statement or Reasons for Allowance, 3 pages;
- (XX) A USPTO Credit Card Payment Form, authorizing the issue fee and advance copies in the amount of \$1430.00.
- (XX) The Commissioner is hereby authorized to charge payment of any additional fees, or credit any overpayment to Deposit Account No. 50-0490.

Date: March 17, 2005  
March 17, 2005

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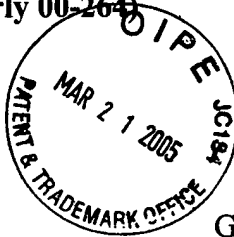
**DOCKET: VIA-019-PAP (formerly 00-264)**  
**Serial No. 09/686,786**

**PATENT**  
**Filing Date: October 11, 2000**

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Group Art Unit: **2667**  
Confirmation No.: **5227**  
Examiner: **Jones, Prenell P.**

For: **Frame Matching Method**

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 3/17/05  
Barbara Kelly March 17, 2005

MAIL STOP Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE**

Dear Sir:

This paper responds to a statement of "Reasons for Allowance" that was provided by the Examiner on page 2 of the Notice of Allowability mailed December 20, 2004 in respect of the above-captioned patent application. Consideration of the following comments responsive to the Examiner's statement of Reasons for Allowance is respectfully requested.

### **COMMENTS**

In the Notice of Allowability, the Examiner states that although the combined cited art discloses processing of digital data (CDMA) and puncturing schemes associated with deleting symbols/bits in a repetition process for obtaining results that include fixed-size data frames, they fail to teach or suggest decreasing the size of a frame by deleting a first number of bits minus a second number of bits from a frame, deleting bits in a single iteration through the data thereby creating a reduced length frame for processing in a digital communication system, wherein the deleting of bits involves the distance between any two consecutive deleted bits within any group within a second subset of the frame, and selecting puncturing bits that are separated from a puncturing bit of next lowest index by an associated distance of non-puncturing bits, a distance associated with a first plurality of puncturing bits, a distance associated with a second plurality of puncturing bits which are equal to a non-zero integer of non-puncturing bits.

Applicant respectfully submits that the allowed claims, Claims 1-18, define over the art of record, and that the scope of the allowed claims should not be limited by their characterization as set forth in the Examiner's Statement of Reasons for Allowance. Specifically, the method set forth in Claim 1 describes a method for decreasing the size of a frame of digital data from a first number of bits to a second number of bits, the method comprising: (a) Receiving a frame having LM bits ordered from a first bit to an LMth bit; and (b) Deleting LM-N bits from the frame in a single iteration through the data, thereby creating a reduced length frame of length N for processing in a digital communications system, wherein the deleting step is performed such that the distance between any two consecutive deleted bits within any group within a first subset of the frame is A bits, and the distance between any two consecutive deleted bits within any group within a second subset of the frame is B bits, where A is an integer greater than 0 and B is an integer greater than A, and where the first subset and the second subset together form a first plurality of consecutive bits. Claims 2-9 further define aspects of Claim 1. Claim 10 sets forth a method of deriving an N-length frame having a number N of digital bits from a

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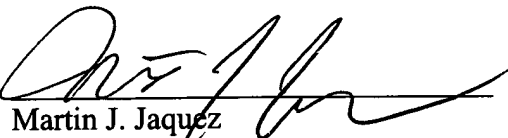
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received frame having a number LM larger than N of digital bits, the method comprising: (a) receiving a frame having LM bits in a contiguous sequence indexed from one to LM; (b) selecting puncturing bits (PBs), each PB separated from a PB of next lowest index, if any, by an associated distance of  $d$  nonpuncturing bits (NPBs), such that distances  $d$  associated with a first plurality of PBs are each equal to a non-zero integer A of NPBs, and distances  $d$  associated a second plurality of PBs are each equal to a different non-zero integer B of NPBs; and (c) removing P selected PBs in a single iteration through the bits of the received frame, where  $P = (LM-N)$ , to produce a punctured frame consisting of N bits. Claims 11-18 further define aspects of Claim 10.

Should the Examiner have any response to these comments, he is encouraged to contact the undersigned. Fees required to cause these Comments to be complete and timely filed may be charged, and any overpayments should be credited, to our Deposit Account No. **50-0490**.

Respectfully submitted,

March 17, 2005  
Date

  
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